

**CLAIMS**

What is claimed is:

1. A method for enhancing the signal transmission characteristics of a signal transmission line, comprising:
  - determining the electrical characteristics of a signal path along the signal transmission line; and
  - adjusting the dimensions of the signal path in order to cancel unwanted electrical characteristics of the signal transmission line, wherein length and width of a portion of the signal path at which a parasitic element is present are adjusted both before and after the parasitic element.
2. The method of claim 1, wherein adjusting the length and width of the signal path modifies the reactance of the signal transmission line.
3. The method of claim 1, further including adding buddy traces adjacent to the signal path in order to reduce electrical crosstalk.
4. A method for enhancing the signal transmission characteristics of a signal transmission line, comprising:
  - determining the electrical characteristics of signal paths along the signal transmission line; and adjusting the dimensions of the signal paths in order to cancel unwanted electrical characteristics of the signal transmission line, wherein the length and width of each of the signal paths

8                   are adjusted before and after a portion of that signal path at which a  
parásitic element is present and wherein the signal paths are adjusted  
10                   identically on the input and output side of the parasitic element.